

May 2009

# Concrete Conveyor

AMERICAN CONCRETE INSTITUTE  
SOUTHERN CALIFORNIA CHAPTER



YOUR SOURCE FOR WHAT'S HAPPENING NOW!

MARK YOUR CALENDER!

Mark your calender!

Thursday, July 16, 2009  
FoxFire Restaurant  
5717 East Santa Ana Canyon Road  
Anaheim Hills, California 92807

It's that time again! Your ACI Southern California Chapter is pleased to present another exciting program with our timely gathering.

Registration ~ 5:00 PM - 5:30 PM  
Dinner & Reception ~ 5:30PM - 7:30 PM

Presenter William Phelan with **The Euclid Chemical Company** will be discussing High Performance Concrete, High Strength Concrete, Mix Design Analysis, Self-Consolidating Concrete (SCC), Structural Macro Fiber & Quality Control.



Please show your support & join us for an informative program.  
Download registration flyer at: [www.acisocal.org](http://www.acisocal.org)

American Concrete Institute Southern California Chapter  
P.O. Box 712740 ~ Santee, California 92072  
Phone: (877) 562-2241 ~ Fax: (619) 258-5839 ~ Email: [aciscc@cox.net](mailto:aciscc@cox.net)  
Visit us on the web! [www.acisocal.org](http://www.acisocal.org)

# President's Message

It has been an exciting few months. We had a great turn out at the Cal Portland Cement Company tour and if you were lucky to see the blasting then you know exactly what I mean. I found the tour to be exceptional and very informative. I would hope we can do another one in the future. A special thanks to Gary Kirk, Charles Kerzic & Kirk McDonald for helping put this together.

Chris Forster has put together a great calender of events for our next meetings, so please try and come to mingle with friends and industry affiliates. We also have our annual Golf Tournament coming up on May 21st and it looks to be a great one this year. There is still room for players so let's spread the word and don't forget to sign yourself and some friends up to play. You can find the sign up sheet on our website.

Once again please ask others in our industry if they have visited our website lately. Let them know we can be found at [www.acisocal.org](http://www.acisocal.org). If you haven't already please take the time and update your e-mail address. It is very easy to follow the steps given to you on the home page. This is our only way keep you informed of what your Souther California ACI Chapter is doing for our industry.

*Dasquale (Pat) Murena*

# What's Happening NOW!

## Calendar of Events for May, June & July 2009

May 6, 9, 13 & 16	Field Testing Technical Certification Southwest Inspection & Testing ~ La Habra
May 16	Flatwork Finisher Certification Utility Vault / Old Castle Precast ~ Fontana
May 21	ACI Field Day Golf Tournament Green River Golf Club ~ Corona Visit <a href="http://www.acisocal.org">www.acisocal.org</a> for complete details
June 3, 6, 10 & 13	Field Testing Technical Certification Twining Laboratories ~ Long Beach
June 17, 20, 24 & 27	Field Testing Technical Certification Chino Ready Mix / Standard Concrete ~ Chino
July 8, 11, 15 & 18	Field Testing Technical Certification Hilltop Geotechnical ~ San Bernardino
July 16	High Performance Concrete guest speaker William Phelan with Euclid Chemical Company Visit <a href="http://www.acisocal.org">www.acisocal.org</a> for complete details

For complete details on ALL events for our Chapter, visit our website  
[www.acisocal.org](http://www.acisocal.org)

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## ACI Southern California Chapter – July 16, 2009 Program

### “High Performance Concrete, High Strength Concrete, Mix Design Analysis, Self-Consolidating Concrete (SCC), Structural Macro Fiber, and Quality Control Seminar”

Presenter

William Phelan with The Euclid Chemical Company



William S. Phelan is Senior Vice President of Marketing and Technical Services for The Euclid Chemical Company. He has been with Euclid for 33 years. He received a B.C.E. from the University of Detroit.

He is an Honorary Member and Fellow of the American Concrete Institute, Chairman of ACI 212, “Admixtures”, A Member of ACI Committee 302, (Chairman 1980-1988), “Guide for Concrete Floor and Slab Construction” a member of ACI 117, “Tolerances”, and ACI 308, “Standard Practice for Curing Concrete”. He is also a member of the Strategic Development Council Executive Committee (ACI).

He is one of the selected Distinguished Leaders of the Industry Winner for 2007 from The Concrete Industry Board, Inc. in New York City.

He is The CANMET-ACI International Conference Winner for 2006 for “Development and Use of Chemical Admixtures in North America”.

He is The Samuel A. Face Jr. Award Winner for 2005 – The “Sam Award” for outstanding accomplishments in and contribution to The Art & Science of High Quality Horizontal Concrete Construction.

His seminar at the World of Concrete is: “*Using Chemical Admixtures to Achieve Better Concrete*”.

He is a member of ASTM C09.22, “*Materials Applied to New Concrete Surfaces*,” ASTM C09.23, “*Chemical Admixtures*,” and ASTM C09.47, “*Self-Consolidating Concrete*.”

Mr. Phelan has been published in Concrete Construction Magazine, Concrete International Magazine and Structures Magazine. His articles include:

- “*Low Shrinkage and Shrinkage Compensating Concrete Benefits*,” Structure Magazine, October 2008
- “*Admixtures and Aggregates: Key Elements in “Athletic Concrete” – Revisited*,” Concrete International, September 2004
- “*Slaying the Curling Dragon*,” Concrete Construction, January 2002
- “*Admixtures and Aggregates: Key Elements of Athletic Concrete*,” Concrete International, April 2000
- “*Planning leads to high-performance floor*,” Concrete Construction, December 1999
- “*Admixtures and HPC: A Happy Marriage*,” Concrete International, April 1998
- “*High-Performance Concrete for Wear Resistant Floors*,” Concrete Construction, October 1997
- “*The Pre-Slab Conference – Essential for a Successful Floor*,” Concrete International, October 1994

RE: High Performance Concrete, High Strength Concrete, Mix Design Analysis, Self-Consolidating Concrete (SCC), Structural Macro Fiber, and Quality Control Seminar

There have been many breakthroughs in High Performance Concrete recently. These Concretes, SCC, and Macro Fiber Concrete are being used on a daily basis today. I propose the following outline:

I. High Strength and Mix Design Analysis

- A. High Strength Mixes: 12,000-psi, 14,000-psi, 16,000-psi and 18,000-psi
- B. "Athletic Concrete" ("Admixtures and Aggregates: Key Elements of Athletic – Revisited", Concrete International, September 2004).
- C. Workability, finishability, setting time and pumpability requirements.
- D. Successful test placement onsite required.
- E. Mix Design Submittal Form.
- F. Mass Concrete
  1. Fly Ash – Up to 50% may be used
  2. Slag – Up to 80% may be used

II. High Strength Concrete Worldwide

- A. Burj Dubai – The Tallest Building in the World (Concrete up to 630 m): In September 2008, they topped out at the 166<sup>th</sup> floor. I was on the 111<sup>th</sup> floor on February 22, 2007.
- B. Freedom Tower, New York, NY: The core to street level started at the end of September 2007. MOE requirement 7 million + and 14,000-psi @ 56 days(56 day average is 16,639 psi through October 29, 2008).
- C. Wachovia Tower, Charlotte, NC: 16,000 psi @ 56 days easily being achieved. The highest MOE to date is 7.8 million. They are using 18,000-psi on several levels.
- D. 839 – Sixth Avenue, New York, NY: This 700-foot tower is 65 feet wide. The 8,000 psi, 10,000 psi and 12,000 psi mix designs were pre-run and listed in the specifications. The superstructure has reached the 36th floor.

III. High Performance Multi-Admixture Mixes

- A. Atlantis Phase III, Paradise Island, Bahamas: Corrosion control was a major concern.
- B. The Laronde Mine, near Cadillac, Quebec: This SCC, Shotcrete concrete was dropped through a pipe 2km (6,560 ft.) to a 8m<sup>3</sup> transmixer. The structural macro fibers, Tuf-Strand SF, and an accelerator were added to the shotcrete mix. The shotcrete was applied to a 4" depth on the walls.
- C. Con Edison Power Tunnel Project, Manhattan, NY: High performance, superplasticized, delayed set concrete mix (8" slump for 3 hours), designed for pumping a distance of more than ¾ of a mile, and achieved stripping strengths in 15 hours. New York pumping record – 4,100 feet of tunnel pumped in under 90 days. The 8" slump at the beginning increased to self-consolidating concrete with a slump/flow of 24" at the end.
- D. The Palms at Jumeirah Project, Dubai, UAE: High Performance Concrete with slump retention of 3 hours at 100° Fahrenheit.
- E. New York Airport Pavements: 4,000 psi + in 12 hours enables rapid runway replacement.
- F. JFK International Airport 18" thick new pavement: 500 lbs. cementitious, 50% slag, w/cm 0.45, 2 ½" top size aggregate. Flexural strengths (Laboratory) – 900 – 1000 psi in 28 days.

IV. Self-Consolidating Concrete (SCC)

- A. Definition, Mixes, Lab and Field Testing, ACI 237 "Self-Consolidating Concrete" review
- B. Port Authority of NY & NJ Testing and Projects
- C. Toronto International Airport
- D. National Museum of the American Indian, Washington DC
- E. Parapet Wall Repair, Montreal, Quebec
- F. Central Plant - University of California, Merced, CA
- G. Jarry-Querbes Project, Montreal, Canada
- H. Concrete Beam Strengthening – The Structural Group
- I. Orlando Magic Arena – Flowing Concrete (8"-10") and SCC (20"-30") Mixes

V. Structural Macro Fibers

- A. 8<sup>th</sup> CANMET/ACI International Conference on Superplasticizers and Other Chemical Admixtures in Concrete, Sorrento, Italy, October 29 – November 1, 2006, “Combined Use of Chemical Admixtures and Polymer Macro-Fibers in Crack-Free Industrial Concrete Floors Without Wire-Mesh”.
- B. Yankee Stadium – All Slabs and Toppings contained 4 lbs. of Tuf-Strand SF per cubic yard.
- C. Giants/Jets Stadium – All Slabs and Toppings contained 4 lbs. of Tuf-Strand SF per cubic yard.
- D. “Standing on a Success Story”, *Concrete International*, January 2008
- E. General Motors Project, Oshawa, Canada
- F. Mercedes Benz Distribution Center, Washington Township, NJ (structural macro fibers in high bay area, steel fibers in other areas)

VI. Proper Quality Control in the Field

- A. Water Content (Microwave Test)
- B. Air Content (Air Meter and Unit Weight Test)
- C. Monthly Reports

**Place:** FoxFire Restaurant – 5717 E. Santa Ana Canyon Road, Anaheim Hill, CA 92807

**Directions:** For directions please visit [www.foxfirerestaurant.com](http://www.foxfirerestaurant.com)

**Cost:** **Member - \$20.00** **Non-Member - \$25.00**

**Time:** Registration 5:00 PM – 5:30 PM  
Dinner & Presentation 5:30 PM – 7:30 PM

**Reservation:** MUST be received by **Thursday July 9, 2009**  
Heather at: Phone – 877.562.2241; Email – [aciscc@cox.net](mailto:aciscc@cox.net); Fax – 619.258.5839

**PAYMENT MUST BE RECEIVED TO CONFIRM RESERVATION!!!!!!**  
**Mail to: ACI, San Diego P.O. Box 712740 Santee, CA 92072**

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**“High Performance Concrete, High Strength Concrete, Mix Design Analysis, Self-Consolidating Concrete (SCC), Structural Macro Fiber, and Quality Control Seminar”– July 16, 2009**

Print Name \_\_\_\_\_ Phone \_\_\_\_\_

Reservation Quantity Members \_\_\_\_\_ Reservation Quantity Non-Members \_\_\_\_\_

If Members please print all Names of Members \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

E-mail for confirmation \_\_\_\_\_

PAYMENT: \_\_\_ Check (payable to ACI, Southern California International Chapter) **OR** \_\_\_ Visa \_\_\_ MasterCard \_\_\_ American Express

Card # \_\_\_\_\_ Security Code \_\_\_\_\_ Exp Date \_\_\_\_\_

Billing Address of Credit Card \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Signature \_\_\_\_\_

**Cancellation: Heather 877/562.2241 - Please CANCEL your reservation(s) at least 24 hours in advance if you are UNABLE to attend.**

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# ACI PUBLICATIONS

For more information or to order any of the following publications call 248.848.3800.

## **CRSI Manual of Standard Practice**

The 28th edition of the Manual of Standard Practice contains updated information on recommended industry practices for estimating, detailing, fabricating, and placing reinforcing steel for reinforced concrete construction. Includes suggested specifications for reinforcing steel. New material includes a list of specific information on structural drawings that is required by the ACI 318 Building Code and updated illustrations of the markings on Grade 60 and Grade 75 reinforcing bars. Every design firm, construction company and inspection office that is involved with reinforced concrete needs to own a copy. \$59.95; Order Code: MSP.EM. ACI does not offer discounts on industry publications.

## **364.2T-08: Increasing Shear Capacity Within Existing Reinforced Concrete Structures**

What options are available to increase the shear capacity of members within existing reinforced concrete structures? This TechNote provides an overview of the variety of materials and methods available to increase shear capacity, including the use of external steel reinforcement, section enlargement, internal steel or fiber-reinforced polymer (FRP) reinforcement, supplemental members, FRP plates and strips, both steel and FRP near-surface-mounted reinforcement, and external prestressing. \$25.00 (ACI members \$20.00; or free if you use one of your download credits); Order Code 3642T08.EM.

## **364.3R-09: Guide for Cementitious Repair Material Data Sheet**

The purpose of this document is to provide a guide to the protocol for testing and reporting of data for cementitious repair materials. It does not address all of the issues associated with material selection. It is the responsibility of the user of this document to determine the suitability of the repair material before use. Available in hard copy or PDF format. \$40.50 (ACI members \$25.00); Order Code 364309.EM.

## **548.3R-09: Report on Polymer-Modified Concrete**

This report addresses concrete made with organic polymers combined with hydraulic cement and discusses the polymer systems used to produce polymer-modified concrete, including their composition and physical properties. It explains the principle of polymer modification and reviews the factors involved in selecting appropriate polymer systems. The report also discusses mixture proportioning and construction techniques for different polymer systems and summarizes the properties of fresh and hardened polymer-modified concrete and common applications. Available in hard copy or PDF format. \$64.50 (ACI members \$39.00); Order Code 548309.EM.

# Why ACI Membership Matters

ACI remains dedicated to supporting members during a challenging economy

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**S**ince 1904, the primary mission of the American Concrete Institute has been to advance concrete knowledge. ACI members are aware of the vast technical and educational resources available through their memberships, while some of the personal, career, and networking opportunities provided through ACI membership may be lesser known. During an economic downturn, these could prove to be some of the most important benefits to ACI members.

To use your ACI membership to the fullest extent possible, take a moment to review what is available:

- **Technical Resources**—Members receive subscriptions to *Concrete International* magazine, *ACI Materials/Structural Journal* or *Concrete Repair Bulletin*; free downloads from select ACI publications, papers, and articles; access to the award-winning ACI Concrete Knowledge Center; and discounted rates on ACI publications and seminars. These technical resources are developed by industry-leading professionals and provide design and construction professionals with the knowledge they need to successfully work with concrete.
- **Career Center**—One of ACI's newest resources, the Career Center provides members the opportunity to

Membership in ACI provides valuable access not only to the latest concrete know-how, but also immediate connection with the top experts in our industry” —

*Jay Thomas, Structural Preservation Systems*



search through listings of jobs specific to the concrete industry. In addition, employers can post job openings for immediate visibility to potential future employees, and students can search area internships.

- **Membership Directory**—This online, searchable resource makes finding individual, organizational, and sustaining members a snap. Individual members can access contact information needed to network with fellow members, and corporate members receive increased exposure through inclusion in a publicly accessible product and services directory.
- **Insurance**—Economical and reliable insurance is available to members through the ACI Group Insurance Program. These competitively-priced plans include term life, comprehensive health care, catastrophe major medical, and high-limit accident protection.
- **Free Online CEUs**—Members can take up to eight online courses during each membership year and earn up to 0.8 Continuing Education Units (CEUs), equivalent to eight Professional Development Hours (PDHs). Earned CEUs can be presented to state licensing agencies to meet part of each state's continuing education relicensing requirements for PDHs. Topics include aggregates for concrete, control of cracking, floor and slab construction, and repair application procedures.
- **Networking Opportunities**—ACI members looking to network will find no better place than at ACI conventions. By joining ACI committees and participating in committee activities, however, members can gain far more than a list of contacts—they can advance their own and other's knowledge of concrete.
- **Online and Social Networking**—Even for members who can't make it to meetings or for those who prefer to network online, networking opportunities are still available through ACI groups on Facebook and LinkedIn. By joining these groups (available by visiting [www.concrete.org](http://www.concrete.org)), members can discover new colleagues, stay aware of industry developments, and participate in online discussions.

## ACI MEMBERS CONCUR

When asked for reasons why they are involved in ACI and why they continue to renew their ACI membership, here's what a few members had to say:

"While ACI still serves as the leading source for technical information, my membership also gives me credibility as a recognized leader with my clients," said Khaled Awad of ACTS. "ACI also has helped me become a more worldly business person and provides a more global perspective on our industry."

Tarek Khan, FACI, of BASF Admixtures Inc., agrees: "I can sum up the benefits of ACI membership easily. Whatever concrete industry challenge I face, I can pick up the phone and call another ACI member for help. I have yet to be turned away; members always help other members. I have an extensive personal and professional network because I'm an ACI member."

"Membership in ACI provides valuable access not only to the latest concrete know-how," said Jay Thomas of Structural Preservation Systems, "but also immediate connection with the top experts in our industry."

"One of the greatest benefits is the ability to talk to people with different points of view and learn how to work with a consensus organization. But ACI doesn't just teach you about concrete—I've also learned a lot about marketing and had the ability to network with the top industry experts. I highly recommend members of our industry get involved in both a local chapter and the national level—they'll be glad they did," said James Shilstone of Shilstone-Day Technologies, Inc.

Debby Orsak, FACI, of Cagley & Associates, Inc., notes ACI's international reach. "ACI has provided me and my firm access to information and contacts on an international scope. Through the ACI network, I can find a local engineer or learn about local customs, codes, and practices by contacting a fellow ACI member anywhere in the world," she said.

## NEW INITIATIVES BEING DEVELOPED

In addition to the existing membership benefits, ACI will continue with several new initiatives that are under development. The new ACI eLearning program provides convenient access to ACI's education programs via the Internet, 24 hours a day, 7 days a week; courses will be continually added in the coming years. ACI is also planning to launch an online portal to provide access to published journal and symposia papers from other international concrete societies, and is pursuing more new certification programs than ever before. Industry experts who volunteer their time on ACI committees continue to develop and revise the standards, guides, and reports needed by the industry, including development of the first ACI code on concrete repair and the first ACI report on sustainability.

The American Concrete Institute remains committed to maintaining its role in the concrete industry during these challenging economic times. While 2009 may be a difficult year for the global economy, ACI plans to emerge as a stronger organization with even more to offer the industry—and all ACI members. Learn more at [www.concrete.org](http://www.concrete.org).

# Honoring Member Commitment to ACI

Annual awards of the Institute announced at spring convention

The recipients of ACI's annual awards were recognized at the ACI Spring 2009 Convention for their technical excellence, committee service, and efforts to advance concrete technology. ACI bestowed Honorary Membership to five individuals during the convention's Opening Session and Awards Program on March 15, 2009, in San Antonio, TX. ACI's highest citation is given to "persons of eminence in the field of the Institute's interest, or one who has performed extraordinary meritorious service to the Institute." Since this rank was established in 1926, 203 ACI members have been elected to Honorary Membership.

ACI's newest Honorary Members are:

- Jo Coke;
- C. Terry Dooley;
- Jacob S. Grossman;
- William S. Phelan; and
- Basile G. Rabbat.

In addition, ACI honored the Instituto del Cemento y del Hormigón de Chile; Skidmore, Owings & Merrill LLP; and 38 individuals with personal and paper awards from the Institute. Those who received ACI awards included:

## HONORARY MEMBERSHIP

*"For her outstanding communication skills, leadership, and vision that fostered greater diversity and member outreach, and thus significantly enhanced ACI's value to a broad constituency."*



Coke

**Jo Coke** retired in 2000 from the Fibermesh Division of SI Corporation (now Propex) in Chattanooga, TN. She is the President of the Chattanooga Theatre Centre, President of the Chattanooga Symphony & Opera Guild, and Chair of her 50th reunion at Wellesley College.

She joined ACI in 1974, was elected a Fellow in 1987, served on the Board of Direction from 1989 to 1992, was Vice President from 1997 to 1999, and was

the first female President of the Institute from 1999 to 2000.

Coke was certified in the first Kansas class for ACI Certified Testing Technicians in 1983, chaired the Membership Committee from 1992 to 1996, and is a former member of the ACI Financial Advisory, Certification Programs, and Convention Committees. She was influential in establishing the ACI Marketing Committee and was a principal author of the 2001 Strategic Plan. Coke is a past member of ACI Committees 234, Silica Fume in Concrete; 325, Concrete Pavements; 330, Concrete Parking Lots and Site Paving; 345, Concrete Bridge Construction, Maintenance, and Repair; 362, Parking Structures; 371, Elevated Tanks with Concrete Pedestals; and 506, Shotcreting.

She is Past President of the ACI Kansas and Northeast Texas Chapters, and was elected Distinguished Chapter Member of the latter in 2001.

Coke received her BA from Wellesley College, Wellesley, MA, in 1959 and her MS in industrial management from the University of Dallas, Dallas, TX, in 1976, with membership in Sigma Iota Epsilon Honorary Management Society.

*"For his outstanding contributions to ACI and the concrete construction industry and for his advocacy, mentorship, education and development of young people for the design and construction industry."*



Dooley

**C. Terry Dooley** is the Secretary of the Board of Directors and full-time volunteer of the Architecture, Construction, and Engineering (ACE) Mentor Program of the Los Angeles Metropolitan Area. This program has given career direction to nearly 1000 inner-city high school students. He founded this affiliate of the national

ACE program and has been active in its growth since he retired in 2002.

Prior to 2002, Dooley spent 21 years as an officer of Morley Builders, Santa Monica, CA. This was preceded by

26 years with Bethlehem Steel Corporation. During his last years there, he was the Contracting Manager and was responsible for contracting construction work in the southwestern U.S.

Dooley served on the ACI Board of Direction from 1994 to 1997. He is a member of ACI Committee 369, Seismic Repair and Rehabilitation, was Vice-Chair and Chair of the Concrete Research and Education Foundation (ConREF) from 1995 to 1998, and is a past member of the Publications Committee. He is also a Fellow and Life Member of the American Society of Civil Engineers (ASCE).

He received the ACI Roger H. Corbetta Concrete Constructor Award in 1998. In addition, he received the Sam Hobbs Award for Professional Achievement in 1991 and Honorary Membership in 2002 from the ACI Southern California Chapter.

Dooley received his BA in English and philosophy from St. John's University, Collegeville, MN, in 1951; his BS in civil engineering from the University of Illinois at Urbana-Champaign, Urbana, IL, in 1954; and his ME in engineering executive programs from the University of California, Los Angeles, CA, in 1969.

*"For his lifetime achievements and contributions to ACI and the concrete industry, his support of applied research and its implementation in design, and his contributions to the ACI 318 Building Code and to design criteria for seismic repair and rehabilitation."*



**Grossman**

**Jacob S. Grossman** is the President and CEO of Rosenwasser/Grossman Consulting Engineers, P.C., and personally directs design and research projects for the firm. He joined the firm in 1957 after several years of design practice in Los Angeles, CA. During his professional career, he has been involved in the design of nearly 1000 concrete and

steel structures.

He is a Fellow and a past member of the ACI Board of Direction. He has completed 23 years of service as a member of ACI Committee 318, Structural Concrete Building Code (he continued serving as a consulting member for an additional 8 years); is a member of ACI Committee 369, Seismic Repair and Rehabilitation; and served for 10 years on ACI Committee, 435, Deflection of Concrete Building Structures, and Joint ACI-ASCE Committee 442, Response of Concrete Buildings to Lateral Forces (discharged).

Grossman was a consultant to the Applied Technology Council (ATC33) developing "NEHRP Guidelines for the Seismic Rehabilitation of Building" (FEMA 273, 274). He was a member of the Advisory Panel of Consulting Engineers for the Cornell/Buffalo National Institute of

Standards and Technology (NIST) project on Seismic Strengthening Methodologies for RC Frame Buildings, and has served as a consultant for NCEER/SUNY Buffalo et al. on System Response (testing and analysis). He was also a private sector panel reviewer of ICSSC RP4, "Standards of Seismic Safety for Existing Federally Owned or Leased Buildings."

Grossman has received numerous awards, including the ACI Maurice P. Van Buren Structural Engineering Award in 1987 and the ACI Alfred E. Lindau Award in 1989. He was honored by the Korean Institute of Construction Engineering and Management (KICEM) with a Certificate of Appreciation in 2000 and the Leader of Industry Award from the Concrete Industry Board of New York in 2001. In 2007, he was made Honorary Member of the Structural Engineering Association of New York.

*"For his lifetime achievements and contributions to ACI and the concrete industry; particularly in the area of promoting the proper use of admixtures and enhancing the knowledge of practicing engineers in how to use them."*



**Phelan**

**William S. Phelan** is Senior Vice President of Marketing and Technical Services for The Euclid Chemical Company. He has been with Euclid for 33 years.

An ACI member since 1962 and a Fellow since 1987, Phelan serves as Chair of ACI Committee 212, Chemical Admixtures; and is a member of ACI Committees 117, Tolerances; 302, Construction of Concrete Floors; 308, Curing Concrete; and the ACI Strategic Development Council Executive Committee. He is also a member of ASTM International Committees C09.22, Materials Applied to New Concrete Surfaces; C09.23, Chemical Admixtures; and C09.47, Self-Consolidating Concrete.

Phelan has received numerous awards, including the Samuel A. Face Jr. Award presented by the Face Companies for outstanding accomplishments in and contributions to the art and science of high-quality horizontal concrete construction in 2005 and the Distinguished Leaders of the Industry from The Concrete Industry Board, Inc., in 2007. During the CANMET/ACI International Conference in 2006, he was honored for sustained and outstanding contributions in the general area of chemical admixtures. He has presented several seminars at World of Concrete and has published numerous articles in *Concrete International*, *Concrete Construction*, and *Structures* magazines.

He received his BS in civil engineering from the University of Detroit, Detroit, MI.

# Congratulations

*“For his outstanding leadership in the preparation of ACI 318 for over 20 years, and his many other contributions to ACI, including outstanding efforts in the education of practicing structural engineers.”*



**Rabbat**

**Basile G. Rabbat** is the Manager of Structural Codes, Portland Cement Association (PCA), Skokie, IL. He has been with PCA for 33 years. For the last 24 years, he has represented PCA in the development and modification of structural concrete codes and standards.

An ACI Fellow since 1988, Rabbat was a member of the ACI Board of Direction from 2003 to 2005. He is a member and Past Chair of ACI Committee 215, Fatigue of Concrete, and served as Secretary of ACI Committee 318, Structural Concrete Building Code. He is a member of the ACI Technical Activities Committee (TAC) Code Committee and ACI Committee E601, Seminar Oversight Committee. He received the ACI Delmar L. Bloem Distinguished Service Award in 1997. He is a Life Member of the American Society of Civil Engineers (ASCE) and a Fellow of the Precast/Prestressed Concrete Institute (PCI).

Rabbat develops and disseminates design information related to concrete structures, and has authored and co-authored over 50 papers and reports related to the behavior and design of structural concrete. Since 1989, he has been responsible for the update of *PCA Notes on ACI 318 Building Code Requirements for Structural Concrete with Design Applications* to conform to each new edition of the Code. Following publication of each new edition of the ACI 318 Building Code, he prepares slides and is a primary speaker at a 1-day seminar to inform code users on the new building code changes. These seminars, which are presented in cities across the U.S., are jointly sponsored by ACI and PCA.

Rabbat received his BSc in civil engineering from Alexandria University, Alexandria, Egypt, in 1967, and his MASc and PhD in structural engineering from the University of Toronto, Toronto, ON, Canada, in 1970 and 1975, respectively. He is a licensed structural engineer in Illinois.

## ARTHUR R. ANDERSON AWARD

*“For his advancement of concrete knowledge through research and publications on air entrainment, construction practices, and quality control; and exceptional contributions to improved standards for concrete construction and building codes.”*

## RECIPIENTS OF ACI'S ANNUAL AWARDS

**Honorary Membership**—Jo Coke, C. Terry Dooley, Jacob S. Grossman, William S. Phelan, and Basile G. Rabbat

**Arthur R. Anderson Award**—Kenneth C. Hover

**Roger H. Corbetta Concrete Constructor Award**—Peter H. Emmons

**Joe W. Kelly Award**—S.K. Ghosh

**Henry L. Kennedy Award**—W. Calvin McCall

**Alfred E. Lindau Award**—Instituto del Cemento y del Hormigón de Chile

**Henry C. Turner Medal**—Suneel N. Vanikar

**Charles S. Whitney Medal**—Skidmore, Owings & Merrill LLP

**ACI Certification Award**—Merlyn Isaak, John E. McChord, and Robert Alfredo Nuñez Moreno

**ACI Young Member Award for Professional Achievement**—Marc Jolin, Karthikeyan H. Obla, and Jussara Tanesi

**Wason Medal for Most Meritorious Paper**—Thomas H.-K. Kang, James M. LaFave, Ian N. Robertson, and Neil M. Hawkins

**ACI Construction Award**—Shiro Ishikawa, Keisuke Matsukawa, Shigeki Nakanishi, and Hironobu Kawai

**Wason Medal for Materials Research**—Pietro Lura, Brad Pease, Guy B. Mazzotta, Farshad Rajabipour, and Jason Weiss

**Chester Paul Siess Award for Excellence in Structural Research**—Kyoung-Kyu Choi, Hong-Gun Park, and James K. Wight

**ACI Design Award**—Hadi Rusjanto Tanuwidjaja

**Delmar L. Bloem Award for Distinguished Service**—John P. Busel, Ronald J. Janowiak, and Frank A. Kozeliski

**Chapter Activities Award**—Alain Belanger, Cas J. Bognacki, Satish C. Dhupelia, and Moetaz M. El-Hawary

**Walter P. Moore, Jr. Faculty Achievement Award**—Maria Juenger

**ACI Foundation Concrete Research Council Arthur J. Boase Award**—Basile G. Rabbat

**ACI Foundation Concrete Research Council Robert E. Philleo Award**—Henry G. Russell



**Hover**

ACI Fellow **Kenneth C. Hover** is a Professor of Civil and Environmental Engineering and Stephen Weiss Presidential Fellow at Cornell University, Ithaca, NY. He teaches reinforced and prestressed concrete design, concrete materials, and construction management, and lectures internationally on concrete materials and construction.



## FIFTY-YEAR MEMBERS HONORED

At the ACI Spring 2009 Convention, 25 members were recognized with citations of achievement for 50 years of continuous membership in the American Concrete Institute. They include:

Joseph Antebi	Oscar Lehmann
John Barnard	Donald Leitch
Jeffrey Borst	V. Mohan Malhotra
Merrifield Claudio	Robert Mast
Robert Crist Jr.	W. McCalla
Kenneth Cummins	Edward Nawy
Larry Feeser	Sandor Popovics
Mark Kroeger	Richard Ramsey
William Gamble	Miguel Santiago
Loris Gerber	Charles Seim
Alejandro Graf	Peter Smith
Asadour Hadjian	Richard White
Michael Jordan	

An ACI member since 1980, Hover is Past President of the ACI Greater Miami Valley Chapter; Chair of ACI Committee 301-C, Concrete Mixtures, Handling, Placing, Consolidating, and Curing; and a member and Past Chair of ACI Committee 308, Curing Concrete. He is also a member of ACI Committees 130, Sustainability of Concrete; 305, Hot Weather Concreting; 306, Cold Weather Concreting; 318-A, General, Concrete, and Construction; and the ACI Financial Advisory Committee. He has received several awards, including the ACI Joe W. Kelly Award in 2001, the ACI Robert E. Philleo Award in 2005, and the ASCE Materials Division's Best Basic Research Paper Award in 1992 and the Structural Research Award in 1993. In 2006, he was named one of the "Ten Most Influential People in the Concrete Industry" by *Concrete Construction*.

His research interests include the impact of environmental conditions on fresh and hardened concrete.

Hover received his bachelor's and master's degrees in civil engineering from the University of Cincinnati, Cincinnati, OH, in 1972 and 1974, respectively, and his PhD in structural engineering from Cornell University in 1984. He is a licensed professional engineer in Ohio and New York.

## ROGER H. CORBETTA CONCRETE CONSTRUCTOR AWARD

*"For providing leadership to the concrete industry through his efforts to enhance communications among various technical organizations."*



Emmons

**Peter H. Emmons** is CEO, Founder, and Principal Owner of Structural Group, Inc., Baltimore, MD. Founded in 1976, Structural Group, Inc., owns Structural Preservation Systems, Pullman Power, VSL, and ElectroTech CP.

An ACI Fellow since 1996, Emmons has served on the ACI Board of Direction; is a Past Chair of ACI Committee 364, Rehabilitation; and is a founding member and Past Chair of the Strategic Development Council (SDC). He is a member of ACI Committee 562, Evaluation, Repair and Rehabilitation of Concrete Buildings, and is a founding member, Past President, and Fellow of the International Concrete Repair Institute (ICRI). He helped develop a worldwide Concrete Repair Manual and Vision 2020, a strategic plan for improvement of concrete repair.

Emmons has received several ACI awards, including the Wason Medal for Most Meritorious Paper in 1996, the Construction Award in 2000, and the Arthur R. Anderson Award in 2000. Structural Preservation Systems received the ACI Charles S. Whitney Medal in 2006. He was made an Honorary Senior Lecturer by the University of Poland in 2000, and was named one of the "Ten Most Influential People in the Concrete Industry" by *Concrete Construction* in 2005.

He is the author of *Concrete Repair and Maintenance Illustrated* and of several papers featured in *Concrete International*.

Emmons received his bachelor's degree in civil engineering from the University of Maryland, College Park, MD, in 1973.

## JOE W. KELLY AWARD

*"For his leadership and vision in educating engineers in the use of concrete for construction, and contributions toward the advancement of the design profession."*



Ghosh

**S.K. Ghosh** is President of S.K. Ghosh Associates Inc., Palatine, IL, and Aliso Viejo, CA. He is also an Adjunct Professor of Civil Engineering at the University of Illinois, Chicago, IL. Ghosh is known internationally for his work in earthquake engineering and specializes in the analysis and earthquake-resistant design of reinforced and prestressed concrete structures.

An ACI Fellow, Ghosh serves on the ACI Board of Direction, and is a member of ACI Committee 318, Structural Concrete Building Code, and Joint ACI-ASCE-TMS Committee 530, Masonry Standards Joint Committee. He is a past member of the ACI Technical Activities Committee. He served for many years on the Board of Direction of the Building Seismic Safety Council and is a member of its Provisions Update Committee. He currently serves on the Board of Direction of the Earthquake Engineering Research Institute; is a member of ASCE Committee 7, Minimum Design Loads for Buildings and Other Structures; and serves on many other national technical committees. He has published many papers and books on seismic and concrete design and has also investigated and reported on structural earthquake performance.

Ghosh has received several ACI awards, including the Structural Research Award in 1992, the Alfred E. Lindau Award in 2004, and the Arthur J. Boase Award in 2006.

He received his PhD in structural engineering from the University of Waterloo, ON, Canada, in 1972.

### HENRY L. KENNEDY AWARD

*“For his contributions as Chair of ACI 301 leading to a reorganized and technically improved 301 specification.”*



McCall

An ACI Fellow, **W. Calvin McCall** is a Vice President and Principal of Concrete Engineering Specialists, LLC, and works at the Charlotte, NC, location as a Construction and Materials Engineer. He has spent 37 years in the concrete construction and prestressed concrete industries, and has authored and co-authored a number of technical

papers and reports.

He is Chair of ACI Committee 301, Specifications for Concrete, and a past member of the ACI Board of Direction. He is a member of ACI Committees 122, Thermal Properties and Performance of Concrete and Masonry Systems; 213, Lightweight Aggregate and Concrete; 223, Shrinkage-Compensating Concrete; 308, Curing Concrete; 318-WA, International Workshop—Structural Concrete in the Americas; 533, Precast Panels; the Technical Activities Committee (TAC) Specifications Committee; and the TAC Tolerances Committee. He is a past member of ACI Committee 318, Structural Concrete Building Code; the Certification Programs Committee; the Chapter Activities Committee; and the Convention Committee. He is also a member of the American Society of Civil Engineers (ASCE), American Society of Concrete Contractors (ASCC), ASTM International, and the Precast/Prestressed Concrete Institute (PCI).

McCall received the Speaker of the Year Award in 2002 and the ACI Delmar L. Bloem Distinguished Achievement Award in 2006. He is a Distinguished Member of the ACI Carolinas Chapter.

His research interests include concrete constructibility as it relates to concrete mixture proportions.

McCall received his degree in civil engineering technology from Central Piedmont Community College, Charlotte, NC, in 1975 and is a licensed professional engineer in North Carolina.

### ALFRED E. LINDAU AWARD

*“For their exemplary commitment to maintain and develop cement and concrete usage in Chile as part of a partnering goal with ACI and other associations around the world.”*



### The Instituto del Cemento y del Hormigón de Chile (ICH)

was formed in 1966 as a nonprofit institution.

Its mission is to promote new and improved use of cement and concrete in all ranges

of application through technical development and the dissemination of good design and construction practices.

The main resource of the Institute is its people. ICH has managed to integrate its activities with an important group of professionals, staff members, and volunteers from different areas of construction to enhance concrete development in Chile.

ICH has grown since 1993 and is active in research and development. The Institute, along with the Chilean Construction Chamber, has formed more than 10 high-level technical groups to generate technological leadership in the construction area, accelerate innovation, and provide a forum for the exchange of experience and knowledge.

ICH disseminates technical knowledge through courses, seminars, and publications. Since 2000, ICH has been active in ExpoHormigón, a technical exhibition in which technology is presented through real-size construction. This exhibition is held annually with more than 15,000 visitors attending.

ICH works together with several international organizations, including ACI, with whom they have had an International Partnership since 1996.

### HENRY C. TURNER MEDAL

*“For outstanding service to the industry through his support, guidance, and management of research that has advanced design, construction, and service life of concrete pavements and transportation structures.”*



Vanikar

**Suneel N. Vanikar** is the Concrete Team Leader for the U.S. Federal Highway Administration (FHWA) in the Office of Pavement Technology in Washington, DC. Vanikar currently directs concrete pavement and concrete materials-related activities including policy, guidance, research, and technology transfer and serves as the Secretary of the Road Pavements

Committee of the International Road Federation in Paris, France.

He is actively involved in fast-track construction, nondestructive testing of concrete, and high-performance concrete. He has been an FHWA employee for 29 years and is a frequent speaker at national and international meetings.

He is a member of ACI Committee 325, Concrete Pavements; a Life Member of the American Society of Civil Engineers (ASCE); and serves on several technical committees of the Transportation Research Board (TRB). Vanikar was a recipient of the FHWA Administrator's award in 1987 and the "Public Official of the Year Award" from the American Concrete Pavement Association in 1992.

He received his BEng in civil engineering from the Maharaja Sayajirao University of Baroda, India, in 1963 and his MS in civil engineering from Colorado State University, Fort Collins, CO, in 1966. He is a licensed professional engineer in New Hampshire.

### CHARLES S. WHITNEY AWARD

*"For over 80 years of memorable worldwide architectural and engineering accomplishments achieved through collaboration and innovation in design excellence."*



**Skidmore, Owings & Merrill LLP (SOM)** is one of the leading architectural firms in the U.S. The firm's sophistication in building

technology applications and commitment to design quality has resulted in a portfolio that features some of the most important architectural accomplishments of modern times.

Since its founding in 1936, SOM has completed more than 10,000 architectural projects located in more than 50 countries around the world. The firm has had an international reputation for design excellence for over 70 years. SOM received the first Firm Award in 1961 from the American Institute of Architects (AIA), and a second in 1996. Over the years, SOM has received nearly 860 design awards, more than any other American design firm.

Currently, the firm maintains offices in New York; Chicago; San Francisco; Washington, DC; Los Angeles; London; Hong Kong; Brussels; and Shanghai.

### ACI CERTIFICATION AWARD

*"For outstanding service as Member and Chair on ACI Certification committees, and in promoting and administering ACI Certification programs."*



Isaak

**Merlyn Isaak** lives in Oregon after a career in materials engineering, failure analysis, and construction quality control. He was a licensed civil engineer in three states, where he practiced primarily in the San Francisco Bay Area of California. He spent 25 years with Testing Engineers, Inc., including 10 years as President and Chairman.

He finished his career as a Senior Vice President at Signet Testing Labs and later in a consulting capacity to the industry. He retired in 2006.

Isaak served on the ACI Board of Direction from 1995 to 1997, as President of the ACI Northern California and Western Nevada Chapter from 1975 to 1976, and as Finance Committee Chair for the chapter's support of the ACI 1986 Convention in San Francisco, CA. He has also served as Chair of ACI Committee C660, Shotcrete Nozzleman Certification, and the Certification Programs Committee. He is a member of ACI Committees 506, Shotcreting, and C630, Construction Inspector Certification. He is a past member of ACI Committees 311, Inspection of Concrete; C610, Field Technician Certification; and the ACI Marketing Committee. Isaak received the ACI Henry L. Kennedy Award in 1997. He is a Life Member of the American Society of Civil Engineers (ASCE).

He received his BS in civil engineering from South Dakota State University, Brookings, SD, in 1957, and was awarded their Engineering Department's "Distinguished Engineer" citation in 2000.

*"For outstanding and tireless service in initiating, promoting, and administering ACI Certification programs."*



McChord

**John E. McChord** is the Director of Engineering for the Kentucky Ready Mixed Concrete Association, headquartered in Frankfort, KY.

McChord's employment began with the Kentucky Department of Highways in 1959. Most of his tenure with the Kentucky Department of Highways was spent in the area of materials engineering.

He served as Director of the Division of Materials for 19 years. He has since retired from the company, and in 1988 began employment with the Kentucky Ready Mixed Concrete Association. McChord's duties with the Kentucky Ready Mixed Concrete Association over the past 20 years have included promotional and educational efforts for the membership.

# Congratulations

## ACI YOUNG MEMBER AWARD FOR PROFESSIONAL ACHIEVEMENT

*“For contributions in advancing the state-of-the-art of shotcrete technology, technology transfer through supervising and mentoring undergraduate and graduate students, and active involvement in ACI Certification Programs.”*



**Jolin**

**Marc Jolin** is an Associate Professor in the Department of Civil Engineering at Laval University, Quebec City, QC, Canada.

He is Chair of ACI Committee C660, Shotcrete Nozzleman Certification, and Secretary of ACI Committee 506, Shotcreting. He is a member of the ACI Chapter Activities Committee,

and a former member of the ACI Certification Programs Committee. He is also a member of the Research Center on Concrete Infrastructures (CRIB).

His research interests include shotcrete and the service life of concrete structures.

In 1994, he was awarded the W.R. Grace Fellowship Award in support of his graduate studies.

Jolin received his bachelor's degree in civil engineering and his MSc from Laval University, Quebec City, QC, Canada, in 1994 and 1996, respectively. He received his PhD from the University of British Columbia, Vancouver, BC, Canada, in 1999.

*“For contributions related to performance-based specifications for concrete, fiber-reinforced concrete, and the use of ultrafine fly ash in concrete—and for outstanding service as an officer in his local ACI Chapter.”*



**Obla**

**Karthikeyan H. Obla** is the Managing Director, Research and Materials Engineering at the National Ready Mixed Concrete Association (NRMCA), Silver Spring, MD. Prior to joining NRMCA in 2003, he worked as a Technical Manager at Boral Material Technologies for 6 years.

He is Secretary of ACI Committee 232, Fly Ash and Natural Pozzolans in Concrete, and is a member of ACI Committees 201, Durability of Concrete; 211, Proportioning Concrete Mixtures; 365, Service Life Prediction; 555, Concrete with Recycled Materials; and C601-B, Certified Quality Technical Manager. He is a Past Secretary of ACI Committee 236, Material Science of Concrete, and a past member of ACI Committees 222, Corrosion of Metals in Concrete; 350, Environmental Engineering Concrete Structures; 544, Fiber Reinforced Concrete; and the Chapter Activities Committee. He is a Past Vice President and Past President of the ACI San Antonio Chapter. Obla

He has personally administered and instructed ACI Certification classes for many years with the association.

He received his BS in civil engineering from the University of Kentucky, Lexington, KY, in 1959. He is a licensed professional engineer in Kentucky.

*“For outstanding service on ACI Certification committees and facilitating, administering, and promoting ACI Certification programs.”*



**Nuñez Moreno**

**Robert Alfredo Nuñez Moreno** is a Senior Extension Specialist and a Lecturer of Construction Engineering and Management in the Department of Civil, Construction, and Environmental Engineering at North Carolina State University (NCSU), where he is also the Director of Construction Extension Services. He is also a Co-Director of the

Civil Engineering Undergraduate Concrete Materials Laboratory and of the Construction Systems Laboratory.

Nuñez is the founder and President of IQ Engineering and Consulting, PLLC, and of IQ Contracting, LLC, firms specializing in concrete technology consulting and concrete construction, respectively.

He is the founder and Faculty Advisor of the ACI-NCSU Student Chapter, and is a member of the Board of Directors for the ACI Carolinas Chapter. He is a member of ACI Committee 228, Nondestructive Testing of Concrete; the ACI Certification Programs Committee; and the ACI International Committee. He is also a member of the American Society of Civil Engineers (ASCE) and ASTM International.

He received his bachelor's degree in civil engineering structures from the Escuela Politecnica Nacional, Quito, Ecuador, in 1982, and his master's degree in civil engineering construction from North Carolina State University, Raleigh, NC, in 1988. He also received a master's degree in business administration from the Kenan Flagler Business School of the University of North Carolina at Chapel Hill, Chapel Hill, NC, in 1991. He is a licensed professional engineer in North Carolina, South Carolina, Michigan, and Ecuador.

is an active member of various ASTM International and Transportation Research Board (TRB) technical committees and has authored or co-authored over 50 technical papers and reports.

Obla's research interests include concrete materials technology, specifications, test methods, and the use of recycled materials.

He received his bachelor's degree in technology in civil engineering from the Institute of Technology, Banaras Hindu University, Varanasi, India, in 1991, and his MS and PhD in civil engineering from the University of Michigan, Ann Arbor, MI, in 1993 and 1997, respectively. He is a licensed professional engineer in Michigan.

*"For her contributions to the advancement of concrete technology and contributing to ACI's program on committees and in sessions, and by reporting on research and concrete technology in many countries and in several languages, thus advancing the goals and objectives of ACI at both the National and International levels."*



**Tanesi**

**Jussara Tanesi** is a contracted Concrete Materials Researcher to the Federal Highway Administration at Turner Fairbank Highway Research Center in McLean, VA. She joined her current company, Soil and Land Use Technology, in 2002, and was previously an Associate Professor in her home country of Brazil. She has authored or co-authored over

20 technical papers and reports in three different languages.

She is Chair of ACI Subcommittee 236C, Computational Materials Science, and is Secretary of ACI Committee 325, Concrete Pavements. She is a member of ACI Committees 211, Proportioning Concrete Mixtures; 231, Properties of Concrete at Early Ages; 236, Material Science of Concrete; and 238, Workability of Fresh Concrete. She is a past member of ACI Committee 235, Electronic Data Exchange. She is also a member of the ACI National Capital Chapter and Director on the Board of Direction, as well as a member of several TRB committees and an officer of ASTM International Committee C09, Concrete and Concrete Aggregates.

Her research interests include concrete durability and properties of concrete pavements materials. She received her BS in civil engineering from State University of Campinas, Brazil, in 1995, and her MS in concrete materials from São Paulo University, Brazil, in 1998.

## WASON MEDAL FOR MOST MERITORIOUS PAPER

*"For...coauthored paper estimating drift capacity of post-tensioning slab-column connections subjected to lateral loads" ("Post-Tensioned Slab-Column Connections," Concrete International, V. 29, No. 4, April 2007, pp. 70-77).*



**Kang**

**Thomas H.-K. Kang** is an Assistant Professor, School of Civil Engineering and Environmental Science, University of Oklahoma, Norman, OK, where he teaches reinforced concrete design at the undergraduate and graduate levels and the design of prestressed concrete structures, as well as serves on the Donald G. Fears Structural Engineering Laboratory Oversight

Committee. He has authored over 10 journal papers in leading journals such as the *ACI Structural Journal*, the *ASCE Journal of Structural Engineering*, and the Post-Tensioning Institute's *PTI Journal*.

He is Secretary of Joint ACI-ASCE Committee 352, Joints and Connections in Monolithic Concrete Structures, where he chairs the task group on design of beam-column joints with headed bars and serves on the slab-column connection report subcommittee. He is a member of ACI Committees 369, Seismic Repair and Rehabilitation; E803, Faculty Network Coordinating Committee; Collegiate Concrete Council; and Joint ACI-ASCE Committee 423, Prestressed Concrete. He is also a member of the American Society of Civil Engineers (ASCE), the Precast/Prestressed Concrete Institute (PCI), and the Post-Tensioning Institute (PTI).

His research interests include seismic design and rehabilitation of concrete joints, connections and systems, and the behavior of headed bars and fibers in concrete.

He received his BS in architecture from Seoul National University, Seoul, Korea, in 1998; his MS in civil engineering from Michigan State University, East Lansing, MI, in 2000; and his PhD in civil engineering from the University of California at Los Angeles, Los Angeles, CA, in 2004. He is a licensed professional engineer in California.



**LaFave**

**James M. LaFave** is an Associate Professor in the Department of Civil and Environmental Engineering, the University of Illinois at Urbana-Champaign, Urbana, IL, where he teaches undergraduate and graduate courses in structural design.

He is Chair of Joint ACI-ASCE Committee 352, Joints and Connections in Monolithic Concrete Structures, and is a member of ACI Committee 374, Performance-Based Seismic Design of Concrete Buildings; Joint ACI-ASCE Committee 408, Development and Splicing of Deformed Bars; and a subcommittee member of Joint ACI-ASCE-TMS Committee 530, Masonry Standards Joint Committee. He is a past member of several other ACI committees. He is also a member of the Earthquake Engineering Research Institute (EERI).

His research interests include the experimental behavior and analytical modeling of structural connections and joints for applications such as performance and assessment of reinforced concrete buildings and bridge structures subjected to earthquakes, seismic and wind performance of light-frame construction with brick masonry veneer, evaluation of sign truss structures, innovative composite structural framing systems, and concrete durability.

He received the Illinois ASCE Student Chapter Outstanding Instructor Award in 2002 and 2005, the Illinois College of Engineering Xerox Award for Faculty Research in 2005, the ASTM International Alan H. Yorkdale Memorial Award in 2006, and the Outstanding *TMS Journal Paper Award* from The Masonry Society in 2007.

He received his BS and MS in civil engineering from the University of Illinois and his PhD in civil (structural) engineering from the University of Michigan, Ann Arbor, MI, in 1986, 1987, and 1997, respectively. He is a licensed professional engineer.



**Robertson**

**Ian N. Robertson** is a Professor of Structural Engineering, Department of Civil and Environmental Engineering, University of Hawaii (UH)-Manoa, Honolulu, HI. He joined the faculty at UH-Manoa in 1992 after working for Walter P Moore and Associates in Houston, TX.

He is a member of ACI Committee 209, Creep and Shrinkage in Concrete, and Joint ACI-ASCE Committee 352, Joints and Connections in Monolithic Concrete Structures. He is President of the Structural Engineers Association of Hawaii, Past Chair of the Hawaii State Earthquake Advisory Committee, and a member of the American Society of Civil Engineers (ASCE).

His research interests include the long-term behavior of reinforced and prestressed concrete structures; corrosion of reinforcing steel and galvanized light-gauge steel; the performance of steel and concrete structures during seismic, hurricane, tsunami, and other extreme loading events; and structural health monitoring.

He received his BS in civil engineering from the University of the Witwatersrand, Johannesburg, South Africa, in 1978, and his MS and PhD in structural engineering from Rice University in Houston, TX, in 1985 and 1990, respectively. He is a licensed structural engineer in Hawaii.



**Hawkins**

**Neil M. Hawkins** is a Professor Emeritus, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, Urbana, IL, and an Affiliate Professor, Department of Civil and Environmental Engineering, University of Washington. He has authored or co-authored over

250 technical papers and reports.

Hawkins is a past member of the ACI Board of Direction and Secretary of the ACI Technical Activities Committee (TAC) Technology Transfer Subcommittee ITG 5, Precast Shear Walls for High Seismic Applications. He is a member of ACI Committees 215, Fatigue of Concrete; 318, Structural Concrete Building Code; 318-G, Precast and Prestressed Concrete; 318-H, Seismic Provisions; and Joint ACI-ASCE Committees 408, Development and Splicing of Deformed Bars; 445, Shear and Torsion; 446, Fracture Mechanics of Concrete; and 550, Precast Concrete Structures. He is a past member of ACI Committee 355, Anchorage to Concrete, and Joint ACI-ASCE Committee 343, Concrete Bridge Design. He is also a member of the ACI Foundation's Scholarship Council and the Fellows Nomination Committee. He is a Life Member of the American Society of Civil Engineers (ASCE), and a Fellow/Titan of the Precast/Prestressed Concrete Institute (PCI).

He received the ACI Henry C. Turner Award in 2005; the ACI Arthur J. Boase Award in 2005; the ACI Joe W. Kelly Award in 1996; the ACI Chester Paul Siess Award for Excellence in Structural Research (previously known as the ACI Structural Research Award) in 1978, 1981, and 1991; and the ACI Wason Medal for Materials Research in 1970.

His research interests include the transfer of research results into practice.

He received his BE in civil engineering from the University of Sydney, Australia, in 1957, and his MS and PhD in civil engineering from the University of Illinois in 1959 and 1961, respectively.

## ACI CONSTRUCTION AWARD

*"For...coauthored paper that develops an effective method to reduce temperature differentials in mass concrete construction" ("Air Pipe Cooling System," Concrete International, V. 29, No. 12, December 2007, pp. 45-49).*

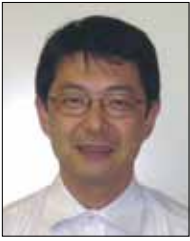


**Ishikawa**

**Shiro Ishikawa** is a Senior Civil and Structural Engineer, Civil Engineering Department, Chiyoda Corporation, Yokohama City, Kanagawa, Japan, one of the major engineering firms for large-scale projects of petroleum, petrochemical, and gas processing plants worldwide.

He has 14 years of experience in engineering and construction projects in several countries, mostly in Southeast Asia and the Middle East.

He received his bachelor's degree in civil engineering from the Tokyo Institute of Technology, Tokyo, Japan, in 1994. He is a licensed construction management engineer in Japan.



**Matsukawa**

ACI member **Keisuke Matsukawa** is an Engineering Consultant, Chiyoda Corporation, Yokohama City, Kanagawa, Japan. He is also a Visiting Associate Professor, Department of International Development Engineering, Tokyo Institute of Technology, Tokyo, Japan, where he has been teaching courses on international project management since 1999.

He has 25 years of experience in concrete materials consulting, structural design, and analysis for various large-scale industrial plant construction projects, both domestic and international.

His research interests include durability design of concrete material and structures.

He received his BS in civil engineering from the University of Tokyo in 1983, and his MS and PhD in civil engineering from Purdue University, West Lafayette, IN, in 1988 and 1991, respectively. He is a licensed professional engineer in Oregon, a concrete maintenance engineer licensed by the Japan Concrete Institute, and a project management professional certified by the Project Management Institute.



**Nakanishi**

**Shigeki Nakanishi** is a Senior Civil Engineer, Civil Engineering Department, Chiyoda Corporation, Yokohama City, Kanagawa, Japan, one of the major engineering firms for large-scale construction projects of petroleum, petrochemical, and gas processing plants worldwide. He has worked at Chiyoda Corporation as a

Civil Engineer since 1992, including 4 years of experience in environmental consulting at E&E Solutions Inc., Tokyo, Japan, from 2000 to 2004.

He has worked on engineering and construction projects of industrial facilities in several countries, mostly in Southeast Asia and the Middle East.

He received his bachelor's degree in civil engineering from Hokkaido University, Sapporo City, Hokkaido, Japan, in 1992. He is a licensed civil construction management engineer in Japan.



**Kawai**

**Hironobu Kawai** is a Senior Civil Engineer, Civil Engineering Department, Chiyoda Corporation, Yokohama City, Kanagawa, Japan, one of the major engineering firms for large-scale construction projects of petroleum, petrochemical, and gas processing plants worldwide. He has worked at Chiyoda Corporation as a Civil Engineer

since 1991. He has worked on commercial engineering and construction projects of industrial facilities in several countries, mostly in Southeast Asia, the Middle East, and South America.

He received his bachelor's degree in civil engineering from Kyusyu Institute of Technology, Kitakyusyu City, Fukuoka, Japan, in 1991. He is a construction management engineer certified by Japan Federation of Construction Management Engineers Associations.

### **WASON MEDAL FOR MATERIALS RESEARCH**

*"For...coauthored paper that combined an experimental-analytical approach to better understand the influence of shrinkage-reducing admixtures on plastic shrinkage cracking"* ("Influence of Shrinkage-Reducing Admixtures on Development of Plastic Shrinkage Cracks," *ACI Materials Journal*, V. 104, No. 2, March-April 2007, pp. 187-194).



**Lura**

Since 2008, **Pietro Lura** has been the Head of the Concrete/Construction Chemistry Laboratory at EMPA, Swiss Federal Laboratories for Materials Testing and Research, Dübendorf, Switzerland. He has been an Assistant Professor at the Technical University of Denmark, Lyngby, Denmark, a Visiting Researcher at the National

Institute for Standards and Technology (NIST) in Maryland and Purdue University in Indiana, and a Patent Examiner at the European Patent Office in Munich, Germany.

He received the ACI Wason Medal for Materials Research in 2007.

His research interests include hydration and early-age properties of concrete—in particular, shrinkage, setting, early-age cracking, and internal curing.

He received his MS in 1998 from the University of Brescia, Brescia, Italy, and his PhD from the Delft University of Technology, Delft, the Netherlands, in 2003.



**Pease**

**Brad Pease** is a PhD Student in the Department of Civil Engineering, Technical University of Denmark (BYG, DTU), Lyngby, Denmark.

He co-founded the ACI Purdue University Student Chapter and is a member of the American Society of Civil Engineers (ASCE) and ASTM International.

His research interests include fracture; fluid/ion ingress; corrosion behaviors in concrete; and the effect of shrinkage-reducing admixtures on early-age shrinkage, stress development, and cracking.

He received his BS and MS in civil engineering from Purdue University, West Lafayette, IN, in 2003 and 2005, respectively.



**Mazzotta**

ACI member **Guy B. Mazzotta** is a Graduate Structural Engineer, Degenkolb Engineers, San Francisco, CA.

He received the ACI Indiana Chapter Scholarship for the 2003-2004 school year. He is a member of the American Society of Civil Engineers (ASCE).

His research interests include early-age shrinkage in concrete and the analysis and behavior of post-

tensioned, cast-in-place reinforced concrete shear walls in seismic applications.

Mazzotta received his BS in civil engineering from Purdue University, West Lafayette, IN, in 2005, and his MS in structural engineering from the University of California, Berkeley, Berkeley, CA, in 2008.



**Rajabipour**

**Farshad Rajabipour** is an Assistant Professor of Civil and Environmental Engineering, University of Hawaii (UH)-Manoa, Honolulu, HI, where he teaches courses on sustainability, infrastructure management, and advanced construction materials. He has authored over 30 peer-reviewed technical papers on related subjects.

He is a member of ACI Committees 123, Research and Current Developments; 130, Sustainability of Concrete; and 236, Material Science of Concrete. He is the Founding President of the ACI Purdue University Student Chapter and served in that capacity from 2004 to 2006. He is a member of the American Society of Civil Engineers (ASCE) and ASTM International.

Rajabipour's research interests include sustainable infrastructure management and rehabilitation, green construction materials, concrete health monitoring, and durability performance prediction.

He received his bachelor's degree in structural engineering from Sharif University of Technology, Tehran, Iran, in 2000, and his master's degree in construction engineering and management and his PhD in infrastructure materials from Purdue University, West Lafayette, IN, in 2003 and 2006, respectively.



**Weiss**

**Jason Weiss** is Professor and Associate Head of the School of Civil Engineering, Purdue University, West Lafayette, IN. He is also the Associate Director of the Center for Advanced Cement Based Materials.

He is a member of ACI Committees 123, Research and Current Developments; 209, Creep and Shrinkage in Concrete;

231, Properties of Concrete at Early Ages; 236, Material

Science of Concrete; 365, Service Life Prediction; 522, Pervious Concrete; and Joint ACI-ASCE Committee 446, Fracture Mechanics of Concrete. He received the ACI Walter P. Moore Jr. Faculty Achievement Award in 2004 and the ACI Young Member Award for Professional Achievement in 2007.

He is a member of the American Society of Civil Engineers (ASCE), ASTM International, the Transportation Research Board (TRB), the Center for Advanced Cement Based Materials (ACBM), and RILEM.

He received his BAE from Pennsylvania State University, State College, PA, in 1995, and his MS and PhD in civil engineering from Northwestern University, Evanston, IL, in 1997 and 1999, respectively.

### **CHESTER PAUL SIESS AWARD FOR EXCELLENCE IN STRUCTURAL RESEARCH**

*"For...coauthored paper that presents a theoretical approach to predict the shear strength of steel fiber-reinforced concrete beams without web reinforcement"* ("Shear Strength of Steel Fiber-Reinforced Concrete Beams without Web Reinforcement," *ACI Structural Journal*, V. 104, No. 1, January-February 2007, pp. 12-21).



**Choi**

**Kyoung-Kyu Choi** is an Assistant Professor, Division of Civil, Environmental and Urban Engineering, Wonkwang University, South Korea. He has authored or co-authored over 50 technical papers and reports.

He is a member of Joint ACI-ASCE Committee 445, Shear and Torsion. He is a past member of ACI Committees 440, Fiber Reinforced Polymer Reinforcement, and 548, Polymers in Concrete. He is also a member of the Korean Concrete Institute (KCI). He received the KCI Young Researcher Award in 2001.

His research interests include shear and seismic design of reinforced concrete structures, fiber-reinforced concrete, and polymer-modified concrete.

He received his BS, MS, and PhD in architectural engineering from Seoul National University, Seoul, South Korea, in 1999, 2001, and 2004, respectively. He is a licensed engineer in architecture in South Korea.



**Park**

ACI member **Hong-Gun Park** is a Professor in the Department of Architectural Engineering, Seoul National University, Seoul, South Korea, where he has served on the faculty since 1997. He is also the Director of the Center for Creative Technology Development for Sustainable Construction. He has authored or co-authored over 100

technical papers and reports.

# Congratulations

He is a member of the American Society of Civil Engineers (ASCE).

His research interests include earthquake design of reinforced concrete and composite structures, material science model for nonlinear analysis, evaluation of existing building structures, and environmentally friendly cementitious materials.

Park received his BS and MS in architectural engineering from Seoul National University, Seoul, South Korea, in 1985 and 1987, respectively, and his PhD in civil engineering from the University of Texas at Austin, Austin, TX, in 1994. He is a licensed professional engineer in South Korea.



**Wight**

**James K. Wight** is the F.E. Richart Jr., Collegiate Professor of Civil Engineering, University of Michigan, Ann Arbor, MI, where he has been a Professor for 34 years.

An ACI Fellow since 1984, Wight is a Past Chair and member of ACI Committee 318, Structural Concrete Building Code, and a member of the ACI Technical

Activities Committee (TAC), and Joint ACI-ASCE Committees 352, Joints and Connections in Monolithic Concrete Structures, and 445, Shear and Torsion. He has received the ACI Delmar L. Bloem Distinguished Service Award in 1991, the ACI Joe W. Kelly Award in 1999, the ACI Greater Michigan Chapter Arthur Moy Memorial Award in 2000, the ACI Arthur J. Boase Award in 2002, and the ACI Chester Paul Siess Award for Excellence in Structural Research Award in 2003. Wight is a Fellow of the American Society of Civil Engineers (ASCE).

His research interests include earthquake-resistant design of reinforced concrete structures and design of concrete structures using high-performance fiber-reinforced concrete.

He received his BS and MS from Michigan State University, East Lansing, MI, in 1969 and 1970, respectively, and his PhD from the University of Illinois at Urbana-Champaign, Urbana, IL, in 1973. He is a licensed professional engineer in Michigan.

## ACI DESIGN AWARD

*“For his paper that presents how higher-strength reinforcing bars in coupling beams are used as means of reducing the amount of diagonal reinforcement and improve the constructability” (“Coupling Beams in the Satrio Tower,” Concrete International, V. 29, No. 5, May 2007, pp. 59-63).*



**Tanuwidjaja**

**Hadi Rusjanto Tanuwidjaja** is an Associate Professor, Department of Civil Engineering, Trisakti University, and President Director of Haerte Widya Engineering Consultants, Jakarta, Indonesia. He has authored or co-authored over 50 technical papers and reports.

He is an Assessor for the Indonesian Society of Structural Engineers (HAKI), an Examiner for the certification

programs of the Indonesian Professional Engineer Association, and a Senate member of Trisakti University. As a founder and Principal of Haerte Widya Engineering Consultants, he also serves as a structural engineer who is responsible for most of the tall earthquake-resistant buildings in Indonesia.

He is a member of the American Society of Civil Engineers (ASCE).

His research interests include high-performance, high-strength concrete for green structural concrete buildings; value engineering design; and the repair, retrofitting, redesign, and build-out of most of the unfinished tall buildings in Indonesia.

He received his BS in civil engineering from Trisakti University, Jakarta, Indonesia, in 1975; his MS from the University of Canterbury, Christchurch, New Zealand, in 1977; and did graduate work in civil engineering at the University of Auckland, Auckland, New Zealand, in 1978 for which he was awarded a Certificate of Proficiency. He is a licensed professional engineer in Indonesia.

## DELMAR L. BLOEM AWARD FOR DISTINGUISHED SERVICE

*“For outstanding leadership of Committee 440, Fiber Reinforced Polymer Reinforcement.”*



**Busel**

**John P. Busel** is Director, Composites Growth Initiative for the American Composites Manufacturers Association. He has over 26 years of experience in the FRP composites industry with core responsibilities in design, tooling, and manufacturing of composites, in addition to market development for the composites industry for the past 14 years.

He is the outgoing Chair of ACI Committee 440, Fiber Reinforced Polymer Reinforcement, having served for 6 years. He was also Secretary of ACI Committee 440 for nearly 6 years, and is a member of several of its subcommittees. In addition, he served as Co-Chair of Fiber-Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-7), a biannual international symposium sponsored by ACI Committee 440 in 2005. He is also an affiliate member of the American Society of Civil Engineers

(ASCE) and a member of their Structural Composites and Plastics Committee. He served as Associate Editor, and was a founding member of the editorial board, for the *ASCE Journal for Composites in Construction*.

Busel received his BS in civil engineering from Bradley University, Peoria, IL, in 1981.

*“For outstanding leadership of Committee 349, Concrete Nuclear Structures.”*



**Janowiak**

**Ronald J. Janowiak** is the lead Civil Engineer at Exelon Corporation, where he is involved in the development of a new nuclear power plant facility in Texas. He has been involved with the design and operation of electric generation facilities during his more than 30-year career. He has also authored papers on the structural

engineering aspects of an operating nuclear power plant. Janowiak recently completed a 7-year term as Chair and is a member of ACI Committee 349, Concrete Nuclear Structures. He is also a member of the ACI Technical Activities Committee (TAC), and is Chair of the TAC Codes Committee. He is also a former member of the American Society of Civil Engineers (ASCE) Nuclear Energy subcommittee.

Janowiak received his BCE in civil engineering from the University of Detroit, Detroit, MI, in 1977, and his MS in structural engineering from Northwestern University, Evanston, IL, in 1978. He also has an MBA in operations management from DePaul University, Chicago, IL. He is a member of Tau Beta Pi and Chi Epsilon, and a licensed professional and structural engineer in Illinois.

*“For outstanding leadership of Committee 211, Proportioning Concrete Mixtures.”*



**Kozeliski**

**Frank A. Kozeliski** is a Consulting Materials Engineer with Gallup Sand & Gravel, LLC, a division of Sky Ute Sand & Gravel of Ignacio, CO, and a part-time employee of the Rocky Mountain Cement Council, a division of the Portland Cement Association (PCA). He has worked in the field of concrete for over

50 years. He has authored numerous papers and articles, and continues to do presentations and research on the innovative use of concrete.

An ACI Fellow since 1992, Kozeliski was Chair for 6 years, and is a member of ACI Committee 211, Proportioning Concrete Mixtures. He is also a member of ACI Committees 229, Controlled Low-Strength Materials; 305, Hot Weather Concreting; 308, Curing Concrete; 330, Concrete Parking

Lots and Site Paving; and the ACI Educational Activities Committee.

In 2005, he received the ACI Chapter Activities Award. He is an ACI speaker on troubleshooting concrete construction, controlled low-strength fill, and concrete parking lots. He is Chair of the Pervious Concrete Promotion Committee for the National Ready Mixed Concrete Association (NRMCA), and is a member of ASTM International, the American Society of Civil Engineers (ASCE), the Society of Mining Engineers, and the National Society of Professional Engineers. His research interests include long-haul concrete, pervious concrete, and recycled materials in concrete.

Kozeliski received his BS and MS in civil engineering from New Mexico State University, Las Cruces, NM, in 1965 and 1969, respectively. He is a licensed professional engineer in Alabama, Texas, and New Mexico.

## CHAPTER ACTIVITIES AWARDS

*“For his consistently outstanding leadership, dedication, and service in the ACI Ontario Chapter.”*



**Belanger**

**Alain Belanger** is the Product Manager of National Concrete Accessories, a major manufacturer of concrete form hardware in Canada.

He is a member of ACI Committee 120, History of Concrete, and the ACI Membership Committee. He is Co-Chair of the ACI Fall 2012 Convention to be held in Toronto, and was Treasurer of the ACI Fall 1990 and 2000 Conventions. Belanger has been the Secretary and Treasurer of the ACI Ontario Chapter since 1987 and plays an instrumental role in its daily activities. He received the Ontario Chapter Volunteer of the Year Award in 2000, and is on the organizing committee of the Ontario Concrete Awards. He is an active member of the Toronto Construction Association and Construction Specifications Canada.

He received his civil engineering technology degree from Dawson College in Montréal, QC, Canada, in 1975.

*“For his untiring efforts on behalf of the ACI New Jersey Chapter and his work in furthering the use of concrete through knowledge.”*



**Bognacki**

**Cas J. Bognacki** works for The Port Authority of New York and New Jersey, Jersey City, NJ, as the Chief of Materials Engineering. He and his staff are involved in providing inspection and testing at the World Trade Center site, which has a construction budget of over \$10 billion.

Bognacki is a Past President of the

ACI New Jersey Chapter, and is Chair and Treasurer of the ACI Certification Committee. In addition, he is Vice President of the Executive Board of the Concrete Industry Board of New York City. He is also a member of ASTM International, The Society for Protective Coatings, and the Transportation Research Board (TRB).

An ACI Fellow, Bognacki is a member of ACI Committees 121, Quality Assurance Systems for Concrete; 211, Proportioning Concrete Mixtures; 212, Chemical Admixtures; 214, Evaluation of Results of Tests Used to Determine the Strength of Concrete; 304, Measuring, Mixing, Transporting, and Placing Concrete; and 562, Evaluation, Repair, and Rehabilitation of Concrete Buildings.

He received his BS and MS in civil engineering from Polytechnic University of New York, New York, NY, in 1972 and 1975, respectively, and is a licensed professional engineer in New York.

*“For his outstanding contributions and dedication to the growth of the ACI India Chapter.”*



**Dhupelia**

**Satish C. Dhupelia** has been an independent Professional Consulting Structural and Civil Engineer for over 40 years. He was active on the Mumbai Sewerage-II Project, which was aided by the World Bank.

Dhupelia is President of the ACI India Chapter, and he was actively involved in the successful launch of

ACI's certification program Concrete Field Testing Technician—Grade I in India. He is a member of the American Society of Civil Engineers (ASCE), Institution of Engineers (India), Chartered Engineers (India), and the Institute for Steel Development and Growth (INSDAG). He is Past President of the Practicing Engineers Architects and Town Planners Association (India), and was Chairman of its Consulting Structural Engineers Subcommittee. He was appointed by the India state government to serve as a member of the Heritage Conservation Committee and a structural engineering member of the technical committee on high-rise buildings.

His research interests include forensic engineering related to structural engineering and its application, safety and performance of existing structures, and the investigation of structural collapses for state and local authorities.

Dhupelia received his bachelor's degree in civil engineering from Gujarat University, Likhdirji College of Engineering, Morbi, Gujarat, India, in 1962. He is registered with the Council of Architecture (India) in New Delhi as an Architect and is a registered structural engineer.

*“For his leadership and enthusiastic promotion of the ACI Kuwait Chapter.”*



**El-Hawary**

**Moetaz M. El-Hawary** is a Research Scientist, Building and Energy Technologies Department, Kuwait Institute for Scientific Research. He has published over 100 technical reports and scientific papers in international journals and conferences.

He is a member and Past President of the ACI Kuwait Chapter (ACI-KC).

He was a proceedings Editor for two international conferences and prepared four technical guides published by ACI-KC. El-Hawary has represented the chapter at the ACI Chapter roundtables, held in Mumbai, India, 2004; in Bangkok, Thailand, 2005; and in Athens, Greece, 2007. He also arranged and chaired the first ACI regional roundtable meeting held in Kuwait in 2007. He is a member of many international associations including the American Society of Civil Engineers (ASCE).

His research interests include concrete technology, building materials, polymers, blended cements, composites, mathematical modeling, recycling of structural waste, sustainability, and rehabilitation and repair of structures.

El-Hawary received his BSc from King Saud University, Riyadh, Saudi Arabia, in 1980 and his MSc and PhD from the University of California at Davis, Davis, CA, in 1982 and 1987, respectively.

## **WALTER P. MOORE, JR. FACULTY ACHIEVEMENT AWARD**

*“For her contributions to teaching the fundamental materials science of cement, supplementary cementitious materials, and concrete.”*



**Juenger**

**Maria Juenger** is an Associate Professor in the Department of Civil, Architectural, and Environmental Engineering at the University of Texas at Austin, Austin, TX.

She is Secretary of ACI Committee 236, Material Science of Concrete, and a member of ACI Committees 201, Durability of Concrete; 231, Properties

of Concrete at Early Ages; and E802, Teaching Methods and Educational Materials.

Juenger's research interests include chemistry and materials science of cement and concrete. Her work investigates phase formation in cement clinker, cement hydration, chemical admixture mechanisms, microstructural development, and chemical deterioration of concrete. Her research seeks to find creative means to improve production processes and promote recycling while improving concrete durability.

She received her BS in chemistry from Duke University, Durham, NC, in 1994, and her PhD in materials science and engineering from Northwestern University, Evanston, IL, in 1999.

### **CRC ARTHUR J. BOASE AWARD**

*“For his outstanding contributions to the activities of the ACI 318 Building Code, disseminating information on the latest building code provisions, and for harmonizing structural concrete codes and standards.”*

Refer to p. 33 for the biography of **Basile G. Rabbat**.

### **CRC ROBERT E. PHILLEO AWARD**

*“For his key role in the development of specifications and design guidelines for the use of high-strength concrete in structural applications and his experimental and theoretical investigations of the behavior of structures using high-performance concrete.”*



**Russell**

**Henry G. Russell** is an Engineering Consultant with Henry G. Russell, Inc., of Glenview, IL. He has authored over 140 papers and reports related to the applications of reinforced and prestressed concrete.

An ACI Fellow, Russell has served on the ACI Board of Direction and the ACI

Technical Activities Committee (TAC). He is a Past Chair of the TAC Subcommittee on High-Performance Concrete, and is a member and Past Chair of ACI Committees 223, Shrinkage-Compensating Concrete, and 363, High-Strength Concrete. He is also a member of the ACI TAC Subcommittee on Technology Transfer. He is a past member of ACI Committee 358, Concrete Guideways. He received the ACI Delmar L. Bloem Distinguished Service Award in 1986, the ACI Wason Medal for Most Meritorious Paper in 1992, the ACI Arthur R. Anderson Award in 1994, and the ACI Illinois Chapter Henry Crown Award in 2004. Other awards include the PCI Martin P. Korn Award in 1980 and the American Society of Civil Engineers (ASCE) T.Y. Lin Award in 2008. He is a Fellow and Life Member of the Precast/Prestressed Concrete Institute (PCI), and a member of ASTM International.

His research interests include applications of high-strength and high-performance concrete in bridges and buildings, design of concrete bridges, and applications of shrinkage-compensating concrete.

He received his BEng and PhD from the University of Sheffield, England, in 1962 and 1965, respectively. He is a licensed structural engineer in Illinois.



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# Here to Serve YOU!

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